	Application No.	Applicant(s)
Madia & Allamat 114	10/737,214	LE ET AL.
Notice of Allowability	Examiner	Art Unit
	Ephrem Alemu	2821
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this apportant or other appropriate communication GHTS. This application is subject to	plication. If not included will be mailed in due course. THIS
1. This communication is responsive to <u>7-27-04</u> .		
2. A The allowed claim(s) is/are 1-22.		
3. The drawings filed on are accepted by the Examiner	.	
 4. ☐ Acknowledgment is made of a claim for foreign priority un a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: ☐ Applicant has THREE MONTHS FROM THE "MAILING DATE" of noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give 6. ☒ CORRECTED DRAWINGS (as "replacement sheets") must 	been received. been received in Application No cuments have been received in this of this communication to file a reply ENT of this application. itted. Note the attached EXAMINER as reason(s) why the oath or declara	national stage application from the complying with the requirements
(a) ☐ including changes required by the Notice of Draftspers		948) attached
1) hereto or 2) to Paper No./Mail Date		o to y attached
(b) ⊠ including changes required by the attached Examiner's Paper No./Mail Date		Office action of
Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the	84(c)) should be written on the drawir ne header according to 37 CFR 1.121(c	ngs in the front (not the back) of d).
 DEPOSIT QF and/or INFORMATION about the deposent attached Examiner's comment regarding REQUIREMENT F 	sit of BIOLOGICAL MATERIAL r FOR THE DEPOSIT OF BIOLOGIC	nust be submitted. Note the AL MATERIAL.
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☑ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/08) Paper No./Mail Date 7-27-04	6. ⊠ Interview Summary Paper No./Mail Dat	 5. ☐ Notice of Informal Patent Application (PTO-152) 6. ☒ Interview Summary (PTO-413), Paper No./Mail Date 3-21-05. 7. ☒ Examiner's Amendment/Comment
4. ☐ Examiner's Comment Regarding Requirement for Deposit	8. 🛛 Examiner's Stateme	ent of Reasons for Allowance
of Biological Material	SH	IH-ILAO Chem MARY EXAMINE

DETAILED ACTION

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Robert C. Klinger on 3-21-05.

The application has been amended as follows:

In the specification:

page 14, line 20, "62 and 64" has been replaced with --64 and 65--.

Page 15, lines 19-21; "input for the -45 slout (polarized), (Michael, is this correct?) and input 74 if port 11 input for the +45 Slout (polarized)" has been replaced with -- input for the -45 ° slant (polarized), and input 74 is port II input for the +45 ° slant (polarized)--.

The changes has been made to correct feed line portions being 64 and 65 as illustrated in Fig. 4 and to correct minor typographical error.

Drawings

2. New corrected drawings are required in this application since the drawings filed 12-16-03 are objected to because lines, number & letters not uniformly thick and well defined, clean, durable, and black (poor line quality) in all figures. Applicant is advised to employ the services of a competent patent draftsperson outside the Office, as the U.S. Patent and Trademark Office

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no longer prepares new drawings. The corrected drawings are required in reply to the Office action to avoid abandonment of the application. The requirement for corrected drawings will not be held in abeyance.

Allowable Subject Matter

- 3. Claims 1-22 are allowed.
- 4. The following is an examiner's statement of reasons for allowance: The prior art of record fail to teach or suggest, alone or in combination, the limitations: "a plurality of groundplanes configured in a staircase arrangement; and at least two of the antenna elements are disposed on each of the groundplanes, wherein the antenna elements are also configured in a staircase arrangement such that the antenna elements define a boresight downtilt" as claimed in claim1. It is for these reasons in combination with all the other limitations in the independent claim 1, that claims 1-22 are allowable over the prior art of record.
- 5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Gottl (US 6,819,300) discloses a dual-polarized dipole array antenna. Powell (US 6,243,050) discloses a log periodic dipole antenna. Ippolito et al. (US 6,072,439) discloses a dual-polarized dipole array antenna. However the prior art listed above neither teach nor disclose the limitation described above for reason of allowance either alone or in combination.

Conclusion

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Correspondence

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ephrem Alemu whose telephone number is (571) 272-1818. The examiner can normally be reached on M-F Flex hours.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Don K. Wong can be reached on (571) 272-1834. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent.

Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

EA 3-21-05

SHIH-CHAO CHEN PRIMARY EXAMINER

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